



# TRANSMITTAL FORM

(To be used for all correspondence  
after initial filing)

Application Number	10/671,070
Filing Date	September 24, 2003
First Named Inventor	Rama Bhatt
Art Unit	1614
Examiner Name	
Attorney Docket No.	200144.404

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement; Form PTO-1449 <input checked="" type="checkbox"/> 48 Cited References <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Declaration <input type="checkbox"/> Statement under 37 CFR 3.73(b) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund	<input type="checkbox"/> CD(s), Number of CD(s) _____ <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group ( <i>Appeal Notice, Brief, Reply Brief</i> ) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Return Receipt Postcard <input type="checkbox"/> Additional Enclosure(s) ( <i>please identify below</i> ): _____ _____ _____
--	---	--

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Individual Name	Richard G. Sharkey, Ph.D. Reg. No. 32,629	Customer Number <b>00500</b>
Signature		
Date	January 23, 2004	

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Lawrence Teague	
Signature		Date: January 23, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. 1449059





PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

January 23, 2004  
Date

Lawrence Teague  
Lawrence Teague

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Rama Bhatt et al.  
Application No. : 10/671,070  
Filed : September 24, 2003  
For : PYRIMIDINES AND USES THEREOF

Art Unit : 1614  
Docket No. : 200144.404  
Date : January 23, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449 (copies of the cited references are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.



Applicants note that the above-identified application filing date is after June 30, 2003, therefore copies of the cited U.S. patents have not been provided. If the Examiner wishes, copies will be provided upon request.

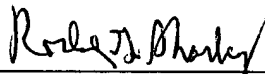
Applicants further note that references AK, AL, AN, AO, BK and BL, on the attached Forms PTO-1449, are not written in English. Accordingly, please find enclosed a copy of International Search Report (ISR) PCT/US02/35256, which cites the above six references. Applicants respectfully submit the above ISR provides the required English language explanation for each reference.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



---

Richard G. Sharkey, Ph.D.  
Registration No. 32,629

RGS:ljt

Enclosures:

Postcard

Transmittal Form

Form PTO-1449 (6 Sheets)

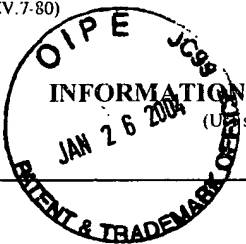
Cited References (48)

Copy of International Search Report (PCT/US02/35256)

701 Fifth Avenue, Suite 6300  
Seattle, Washington 98104-7092  
Phone: (206) 622-4900  
Fax: (206) 682-6031

V449056



FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 200144.404		APPLICATION NO. 10/671,070	
 <p><b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)</p>				APPLICANTS Rama Bhatt et al.			
				FILING DATE September 24, 2003		GROUP ART UNIT	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,119,823	01/28/64	Shapiro	260	249.9	
	AB	3,933,814	01/20/76	Haberkorn et al.	260	248 NS	
	AC	3,948,893	04/06/76	Aichinger et al.	260	248 NS	
	AD	3,966,725	06/29/76	Reisdorff et al.	260	248 NS	
	AE	4,219,552	08/26/80	Haberkorn et al.	424	249	
	AF	4,499,269	02/12/85	Bennion et al.	544	198	
	AG	5,102,927	04/07/92	Rody et al.	524	100	
	AH	5,260,362	11/09/93	Rody et al.	524	100	
	AI	5,545,836	08/13/96	Reinehr et al.	544	216	
	AJ	5,702,717	12/30/97	Cha et al.	424	425	
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	AK	DE 1200314	09/09/65	Germany		X	
	AL	DE 2226474	02/22/73	Germany		X	
	AM	EP 525 262 A1	02/03/93	EPO			
	AN	FR 1321624	03/22/63	France		X	
	AO	JP 48-28486	04/14/73	Japan		X	
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AP	Britten and Kohne, "Repeated Sequences in DNA," <i>Science</i> 161(3841): 529-540, August 9, 1968.					
	AQ	Brodskii et al., "The mechanism underlying the action of secondary aromatic amine- type antioxidants and their ethers on the radiation oxidation of N-butylpropionamide and polycapromide," <i>Chemical Abstracts</i> , Accession No. 69:3284, 1968.					
	AR	Budesinsky et al., "Substituted 2,4-diamino-6-phenyl-1,3,5-triazines," <i>Chemical Abstracts</i> , Accession No. 97:6328, 1982.					
EXAMINER				DATE CONSIDERED			
<p>* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant(s).</p>							



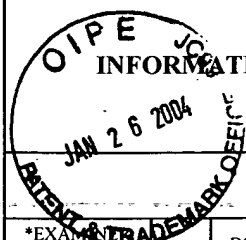
FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

200144.404

APPLICATION NO.

10/671,070



## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Rama Bhatt et al.

FILING DATE

September 24, 2003

GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5,856,331	01/05/99	Bursten	514	263	
	BB	6,004,985	12/21/99	Kochanny et al.	514	341	
	BC	6,150,360	11/21/00	Daeyaert et al.	514	236.2	
	BD	6,150,362	11/21/00	Henkin et al.	514	245	
	BE	6,150,382	11/21/00	Kochanny et al.	514	341	
	BF	6,166,014	12/26/00	Kochanny et al.	514	241	
	BG	6,193,960	02/27/01	Metzger et al.	424	59	
	BH	6,288,228	09/11/01	Henkin et al.	544	197	
	BI						
	BJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BK	JP 49-69688	07/05/74	Japan		X
	BL	SU 274102	04/24/70	Soviet Union		X
	BM	WO 91/11465	08/08/91	WIPO		
	BN	WO 00/25780	05/11/00	WIPO		
	BO	WO 01/25220	04/12/01	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BP	Burmistrov et al., "6-Amino-4-arylamino-2-(o-hydroxyphenyl) triazines," <i>Chemical Abstracts</i> , Accession No. 61:47941, 1964.
	BQ	Bursten et al., "Interleukin-1 Rapidly Stimulates Lysophosphatidate Acyltransferase and Phosphatidate Phosphohydrolase Activities in Human Mesangial Cells," <i>Journal of Biological Chemistry</i> 266(31): 20732-20743, November 5, 1991.
	BR	Bursten et al., "Lipid A activation of glomerular mesangial cells: mimicry of the bioactive lipid, phosphatidic acid," <i>American Journal of Physiology</i> 262(2): C328-C338, February 1992.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



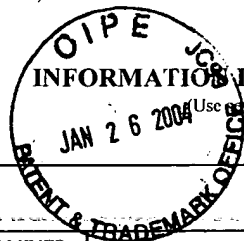
FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

200144.404

APPLICATION NO.

10/671,070



## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Rama Bhatt et al.

FILING DATE

September 24, 2003

GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CB	WO 02/36578	05/10/02	WIPO		
	CC					
	CD					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

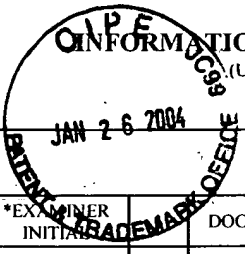
CE	Chen, C. et al., "A Convenient Synthetic Method for Trisubstituted s-Triazines," <i>Chemical Abstracts</i> , Accession No. 124:146076, 1995.
CF	Eberhardt et al., "Human Lysophosphatidic Acid Acyltransferase," <i>Journal of Biological Chemistry</i> 272(32): 20299-20305, August 8, 1997.
CG	Elkafrawy, A.F. et al., "Synthesis and reactions of some 4-aryl-2-benzylthio-1, 6-dihydro-6-thiono-1,3,5-triazines," <i>Chemical Abstracts</i> , Accession No. 115:279963, 1991.
CH	English, D., "Phosphatidic acid: A lipid messenger involved in intracellular and extracellular signaling," <i>Cell Signal</i> 8(5): 341-347, 1996.
CI	Fong and Engleman, "Dendritic Cells in Cancer Immunotherapy," <i>Annual Review of Immunology</i> 18: 245-273, 2000.
CJ	Hoess and Abremski, "The Cre-lox Recombination System," <i>Nucleic Acids and Molecular Biology</i> 4: 99-109, 1990.
CK	Imamura et al, "Induction of <i>in vitro</i> tumor cell invasion of cellular monolayers by lysophosphatidic acid or phospholipase D," <i>Biochemical and Biophysical Research Communications</i> 193(2): 497-503, June 15, 1993.
CL	Kester, M., "Platelet-Activating Factor Stimulates Phosphatidic Acid Formation in Cultured Rat Mesangial Cells: Roles of Phospholipase D, Diglyceride Kinase, and De Novo Phospholipid Synthesis," <i>Journal of Cellular Physiology</i> 156: 317-325, 1993.

EXAMINER

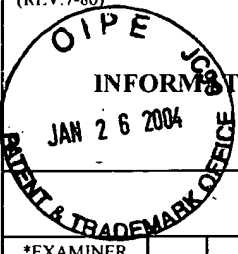
DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 200144.404		APPLICATION NO. 10/671,070	
 <p style="margin: 0;">INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)</p>				APPLICANTS Rama Bhatt et al.			
				FILING DATE September 24, 2003		GROUP ART UNIT	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DA							
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION	
						YES	NO
DB							
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
DC		Köhler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256(5517): 495-497, August 7, 1975.					
DD		Kume and Shimizu, "cDNA Cloning and Expression of Murine 1-Acyl- <i>sn</i> -glycerol-3-phosphate Acyltransferase," <i>Biochemical and Biophysical Research Communications</i> 237(3): 663-666, August 28, 1997.					
DE		Leung et al., "Molecular Cloning of Two Alternatively Spliced Forms of Human Phosphatidic Acid Phosphatase cDNAs that Are Differentially Expressed in Normal and Tumor Cells," <i>DNA and Cell Biology</i> 17(4): 377-385, April 1998.					
DF		Losman et al., "Baboon anti-idiotypic antibodies mimic a carcinoembryonic antigen epitope," <i>Int. J. Cancer</i> 46(2): 310-314, August 15, 1990.					
DG		Martin et al., "Increased concentrations of phosphatidate, diacylglycerol and ceramide in <i>ras</i> - and tyrosine kinase ( <i>fps</i> )-transformed fibroblasts," <i>Oncogene</i> 14(13):1571-1580, April 3, 1997.					
DH		Michalik, M. et al., "Synthesis of nitrogen-containing heterocycles," <i>Chemical Abstracts</i> , Accession No. 79:18680, 1973.					
DI		Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," <i>BioTechniques</i> 7(9): 980-EOA, October 1989.					
DJ		Moolenaar, W.H., "Lysophosphatidic Acid, a Multifunctional Phospholipid Messenger," <i>Journal of Biological Chemistry</i> 270(22): 12949-12952, June 2, 1995.					
DK		Moussa, G.E.M. et al., "Some reactions on 4-aryl-2-substituted amino-1,6-dihydro-6-thioxo-1,3,5 triazines," <i>Chemical Abstracts</i> , Accession No. 113:59112, 1990.					
DL		Orlandi et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> 86(10): 3833-3837, May 1989.					
EXAMINER				DATE CONSIDERED			
<p>* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant(s).</p>							



FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 200144.404		APPLICATION NO. 10/671,070	
 <p><b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)</p>				APPLICANTS Rama Bhatt et al.			
				FILING DATE September 24, 2003		GROUP ART UNIT	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	EB						
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	EC	Pitts et al., "Rapid Synthesis of Triazine Inhibitors of Inosine Monophosphate Dehydrogenase," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 12: 2137-2140, 2002.					
	ED	Rizzo et al., "The Recruitment of Raf-1 to Membranes Is Mediated by Direct Interaction with Phosphatidic Acid and Is Independent of Association with Ras," <i>Journal of Biological Chemistry</i> 275(31): 23911-23918, August 4, 2000.					
	EE	Sauer, B., "Inducible Gene Targeting in Mice Using the Cre/lox System," <i>Methods: A Companion to Methods in Enzymology</i> 14(4): 381-392, April 1998.					
	EF	Schreurs et al., "Dendritic Cell-Based Vaccines: From Mouse Models to Clinical Cancer Immunotherapy," <i>Critical Reviews in Oncogenesis</i> 11(1): 1-17, 2000.					
	EG	Shapiro, S.L. et al., "Guanamines. VIII. 6-(Substituted-phenyl) guanamines," <i>Chemical Abstracts</i> , Accession No. 56:60602, 1962.					
	EH	Sharp et al., "Viral DNA in Transformed Cells. I. A Study of the Sequences of Adenovirus 2 DNA in a Line of Transformed Rat Cells Using Specific Fragments of the Viral Genome," <i>J. Mol. Biol.</i> 86(4): 709-726, July 15, 1974.					
	EI	Sluka et al., "2,4-diamino-6-phenyl-1,3,5-triazines," <i>Collection Czechoslov. Chem. Commun.</i> 43: 1639-1646, 1978.					
	EJ	Stamps et al., "A human cDNA sequence with homology to non-mammalian lysophosphatidic acid acyltransferases," <i>Biochemical Journal</i> 326:455-461, September 1, 1997.					
	EK	Sutton, W.D., "A crude nuclease preparation suitable for use in DNA reassociation experiments," <i>Biochimica et Biophysica Acta</i> 240(4): 522-531, July 29, 1971.					
	EL	West et al., "Cloning and Expression of Two Human Lysophosphatidic Acid Acyltransferase cDNAs That Enhance Cytokine-Induced Signaling Responses in Cells," <i>DNA and Cell Biology</i> 16(6): 691-701, June 1997.					
EXAMINER				DATE CONSIDERED			
<p>* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).</p>							



FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

200144.404

APPLICATION NO.

10/671,070

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Rama Bhatt et al.

FILING DATE

September 24, 2003

GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FA						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
FB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FC	Wetmur and Davidson, "Kinetics of Renaturation of DNA," <i>Journal of Molecular Biology</i> 31(3): 349-370, February 14, 1968.
FD	Xu et al, "Lysophospholipids activate ovarian and breast cancer cells," <i>Biochemical Journal</i> 309: 933-940, August 1, 1995.
FE	Yuki, Y. et al., "Preparation of amino-s-triazines with amino-or nitrophenyl groups," <i>Chemical Abstracts</i> , Accession No. 75:151765, 1971.
FF	
FG	
FH	
FI	
FJ	
FK	
FL	

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).